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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/544,266	01/10/2006	Dong-Kyun Seo	4647-A1PCUS	1339
GREG L MARTINEZ 3116 South Mill Avenue Suite 408 Tempe, AZ 85282			EXAMINER	
			VANOY, TIMOTHY C	
			ART UNIT	PAPER NUMBER
			1793	
,			MAIL DATE	DELIVERY MODE
			11/09/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Applicat	ion No.	Applicant(s)				
		10/544,2	266	SEO ET AL.				
	Office Action Summary	Examine	r	Art Unit				
·		Timothy	<u>-</u>	1793				
Period fo	The MAILING DATE of this communi or Reply	cation appears on th	e cover sheet with the o	correspondence address				
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MANAGER, FROM THE MANAGER, FROM THE MANAGER OF THE MANA	AILING DATE OF T of 37 CFR 1.136(a). In no e unication. tutory period will apply and will, by statute, cause the ap	HIS COMMUNICATION vent, however, may a reply be the will expire SIX (6) MONTHS from plication to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status								
1)🖂	Responsive to communication(s) filed on <u>23 October 2007</u> .							
,—	This action is FINAL . 2b)⊠ This action is non-final.							
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is							
	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Disposit	ion of Claims							
•	4) Claim(s) 35,36 and 38-54 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.							
5)🖂	5)⊠ Claim(s) <u>39-54</u> is/are allowed.							
·	Claim(s) <u>35 and 36</u> is/are rejected.							
• —	Claim(s) <u>38</u> is/are objected to.							
8)Ш	8) Claim(s) are subject to restriction and/or election requirement.							
Applicat	ion Papers							
9)[The specification is objected to by the	e Examiner.		·				
10)⊠ The drawing(s) filed on <u>01 August 2005</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.								
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
11)	The oath or declaration is objected to	by the Examiner. N	lote the attached Oπice	e Action or form PTO-152.				
Priority (under 35 U.S.C. § 119							
	Acknowledgment is made of a claim All b) Some * c) None of: Certified copies of the priority Certified copies of the priority	documents have be	en received. en received in Applica	tion No				
3. Copies of the certified copies of the priority documents have been received in this National Stage								
application from the International Bureau (PCT Rule 17.2(a)).								
* See the attached detailed Office action for a list of the certified copies not received.								
Attachmer	nt(s)							
1) 🔀 Noti	ce of References Cited (PTO-892)		4) Interview Summar					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application								
3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 6) Other:								

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DETAILED ACTION

Withdrawal of Finality

The finality of the Final Office Action mailed on Sept. 11, 2007 is withdrawn. The Applicants' time period for response has been re-set to expire three months and zero days from the mailing date of this Non-final Office Action. The Applicants' 116

Amendment filed on Oct. 23, 2007 has been entered. The Applicants' arguments submitted with the 116 Amendment concerning the rejection of claim 35 under 35USC102(e) over US 2003/0190280 A1 to Shelton et al. are persuasive and this rejection is withdrawn. However, prosecution has been re-opened in view of the newly found reference, U. S. Pat. 6,835,320 B1.

Claim Objections

a) Claim 38 is objected to because it is dependent on cancelled claim 37.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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Claims 35 and 36 are rejected under 35 U.S.C. 102(e) as being anticipated by U. S. Pat. 6,835,320 B1 to Komatsu et al.

Example 1 in col. 14 of the Komatsu patent describes a method in which zinc oxide (i. e. the applicants' "first material which includes at least one metal element") and water are mixed together in a beaker to form zinc oxide slurry. The aluminum sulfate was gradually poured into the beaker with stirring. The mixture was heated at 90 °C for a reaction time of 5 hours to obtain a composition of the general formula:

 $Al_aZn_b(OH)_c(SO_4)_d$ 1.0 H_2O .

Claims 38-54 have not been rejected under either 35USC102 or 35USC103 because neither U. S. Pat. 6,835,320 B1 or any of the other references of record teach or suggest the limitations of these claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Timothy C. Vanoy whose telephone number is 571-272-8158. The examiner can normally be reached on Mon-Fri 8-4:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stanley Silverman, can be reached on 571-272-1358. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Timely C Vanoy Timothy C Vanoy Primary Examiner Art Unit 1793

tcv